

AMENDMENTS TO THE SPECIFICATION

Please delete the first full paragraph on page 7 in the specification, and replace with the following new one:

The cylindrical roller bearing described in (1) is characterized in that the angle α satisfies a relation of $\alpha < \theta$ with respect to an open angle θ of the roller guide-surface, and a surface roughness of at least the crowning portion at the end face of the cylindrical roller is set in a range of 0.02 to 0.15 μmRa . Note that the surface roughness Ra is arithmetical surface roughness which defined as JIS B 0601-1994.

Please delete the second full paragraph on page 31 bridging page 32 in the specification, and replace with the following new one:

The surface roughness of each of the inner ring raceway surface 22a, the outer ring raceway surface 23a and the roller guide-surface 278 of the flange portion 257 was set in a range of 0.05 to 0.20 μmRa by the relieved end grinding or the super finishing processing. Further, the surface roughness of the rolling surface of the cylindrical roller 24 in each of the embodiments and the comparative examples was set to the same value of 0.15 μmRa . A table 2 shows the flange open angles θ of the roller guide-surfaces 27 and the curvature radiiuses R' at the crowning portions 24d of the end faces 24a of the cylindrical rollers 24.